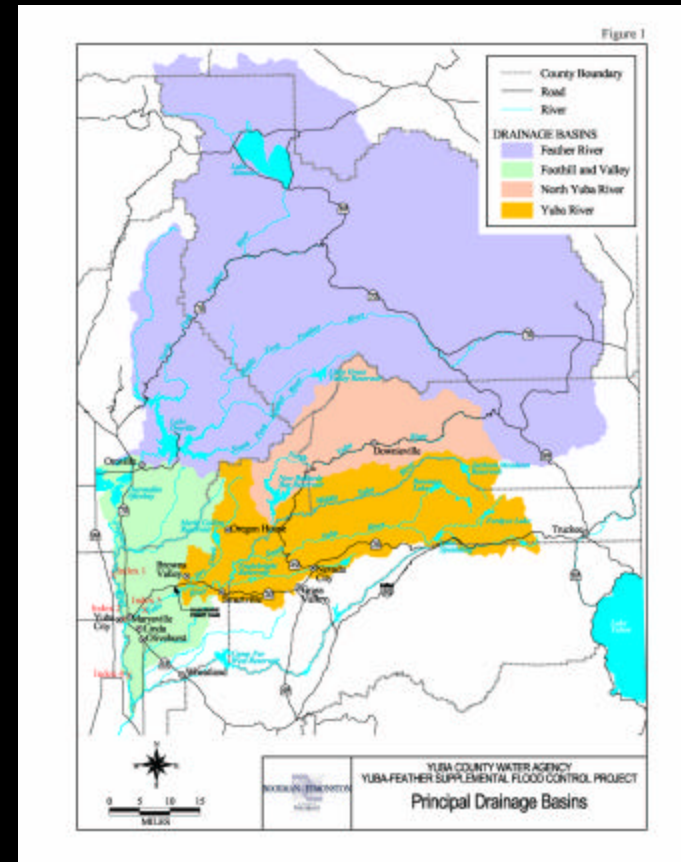


***Yuba-Feather Supplemental  
Flood Control Project***

## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

- **Principal Drainage Basins**
  - **Yuba River Basin** above Daquerre Pt. Dam 1,350 sq. mi.
  - **North Yuba River Basin** above NBB Dam 489 sq. mi.
  - **Feather River Basin** above Oroville Dam 3,611 sq. mi.



## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

- Need for supplemental flood control
- Proposed actions
- Schedule

## *YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT*

### History of Regional Flooding

- 1950 Linda flood
- 1955 Yuba City flood
- 1964 Jack Slough flood
- 1986 Linda/Olivehurst flood
- 1997 Arboga flood

## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

### Inadequate flood protection systems

- Corps' 1960 plan not completed
  - 3<sup>rd</sup> dam not built
  - Eliminated 60% of Yuba's flood storage
  - Uncontrolled South and Middle Yuba
- Poor levee stability
- Past hydrology underestimated flood frequency

## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

### Design Channel Capacities

- Feather Above Yuba 210,000 cfs
- Feather Below Yuba 300,000 cfs
- Feather Below Bear 320,000 cfs
- Yuba River 120,000 to 180,000 cfs

## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

# Reservoir Operation

- Oroville Reservoir
  - 750,000 af of flood space in 3,500,000 af total storage
  - Objective flood release 150,000 cfs
- New Bullards Bar Reservoir
  - 170,000 af of dedicated flood space in 966,000 af total storage
  - Objective flood release 50,000 cfs

## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

- Phases I & II Studies
  - 33 elements
  - Element screening
  - 15 elements found to have “primary merit”
  - South Yuba Wild and Scenic River constraints
  - Five elements remaining



## *YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT*

- Forecast-Based Operation
  - Lake Oroville Surcharge
  - Thermalito Afterbay Emergency Operation
  - Increase New Bullards Bar Outlet Capacity
  - Raise New Bullards Bar Dam
- 
- New Cologate Powerhouse Tailwater Depression (added)
  - Levee Setbacks (added)

## *YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT*

### **Configuration of Elements Today**

- Forecast-Coordinated Operation
- New Colgate Powerhouse Tailwater Depression
- New Bullards Bar Dam Outlet
- Levee Setbacks

## YUBA-FEATHER SUPPLEMENTAL FLOOD CONTROL PROJECT

### Schedule

- New Colgate Powerhouse Feasibility Report and EA – Draft, July 2002; Final, October 2002
- Y-FSFCP Draft Feasibility Report – February 2003
- Draft EIR – June 2003
- Public meeting – July 2003
- Response to comments
- Y-FSFCP Final Feasibility Report – June 2003
- Y-FSFCP Final EIR – November 2003